

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-420
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following General Motors Corporation 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| JGM0426FWF1 | 7.0 (426) | Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler) |

Engine models and codes are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons gm/bhp-hr</u> | <u>Carbon Monoxide gm/bhp-hr</u> | <u>Nitrogen Oxides gm/bhp-hr</u> | <u>Particulates gm/bhp-hr</u> |
|-----------------------------------|--|--------------------------------------|-----------------------------------|
| 1.3 | 15.5 | 6.0 | 0.60 |

The following are the certification emission values for this engine family:

| <u>Engine Family</u> | <u>Hydrocarbons gm/bhp-hr</u> | <u>Carbon Monoxide gm/bhp-hr</u> | <u>Nitrogen Oxides gm/bhp-hr</u> | <u>Particulates gm/bhp-hr</u> |
|----------------------|-----------------------------------|--|--------------------------------------|-----------------------------------|
| JGM0426FWF1 | 0.7 | 4.2 | 5.5 | 0.59 |

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 23rd day of December, 1987.



K. D. Drachand, Chief
Mobile Source Division

17-JGM0426FWF1-15A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer: General Motors Corporation

Executive Order No.: A-6-420

Engine Family: JGM0426FWF1

Liter (CID): 7.0 (426)

Exhaust Emission Control System: Throttle Delay, (IC),(TC),(DID)

| ENG MODEL | FUEL INJECTION PUMP MFR PART NO. | INJECTOR MFR PART NO. | MAXIMUM RATED HP AT RPM | FUEL RATE mm3/STROKE (LBS/HR) | MAXIMUM RATED TORQUE AT RPM | FUEL RATE mm3/STROKE (LBS/HR) |
|--------------|--|--------------------------|-------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|
| 6L-71TA-JWAC | NA | 7G70 5229900 | 250@2100 | 74.6 (104.2) | 730@1200 | 86.0 (68.6) |
| | | 7G75 5229905 | 270@2100 | 80.0 (111.7) | 788@1200 | 91.6 (73.1) |
| | | 7G75 5229905 | 285@2100 | 81.0 (113.1) | 850@1200 | 91.4 (72.9) |
| | | 7G75 5229905 | 264@1800 | 84.0 (100.6) | 850@1200 | 91.4 (72.9) |
| | | 7G70 5229900 | 265@2100 | 74.9 (104.7) | 792@1200 | 85.2 (68.0) |
| | | 7G70 5229900 | 245@1800 | 78.1 (93.5) | 792@1200 | 85.2 (68.0) |
| | | 7G75CP 5229905 | 230@1950 Min. | 69.0 (89.5) | 850@1200 | 91.4 (72.9) |

ISSUED: 005

REV. NO.:

0313T/28T